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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,393	02/06/2004	Jin-Won Kim	P56929	5028
Robert E. Bushnell Suite 300 1522 K Street, N.W. Washington, DC 20005			EXAMINER TIV, BACKHEAN	
			MAIL DATE	DELIVERY MODE
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			10/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Per	
•	Application No.	Applicant(s)	
•	10/772,393	KIM, JIN-WON	
Office Action Summary	Examiner	Art Unit	
	Backhean Tiv	2151	_
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING 1 - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI .136(a). In no event, however, may a d will apply and will expire SIX (6) MOI ate, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2/6	<u>/04</u> .		
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.		
3) Since this application is in condition for allow	ance except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) ⊠ Claim(s) <u>1-16</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-16</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on <u>06 February 2004</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I	are: a)⊠ accepted or b)□ ne drawing(s) be held in abeya nection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have beer au (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/04. 기 வ	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application	

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Detailed Action

Claims 1-16 are pending in this application.

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d).

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 2/6/04,7/29/04 has been considered

Drawings

The Drawings filed on 2/6/04 are acceptable.

Claim Objections

Applicant is advised that should claim 13 be found allowable, claim 14 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claims 1-16 are objected to because of the following informalities:

As per claims 1-16, it is recommended that the applicant delete PADI, PADT, PADO and use PPPoE Active Discovery Inititation, PPPoE Discovery Terminate, PPPoE Active Discovery Offer.

Appropriate correction is required.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4,6-9,11-14,16 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Publication 2004/0052263 issued to Xu in view of *A Method of Transmitting PPP Over Ethernet*, RFC 1516, Mamkos et al.(Mamkos), Feb.1999 in further view of US Publication 2003/0012198 issued to Kaganoi et al.(Kaganoi).

As per claim 1. Xu teaches a PPPoE (Point-to-Point Protocol over Ethemet) network system, comprising: a client connected to a server through an Ethemet line(para.0009); said client transmitting a PADI (PPPoE Active Discovery Initiation) packet to said server if said client becomes disconnected from said server in a manner other than by transmission of PADT (PPPoE Active Discovery Terminate) packets between said client and said server(para.0061); packet received from said server, following the transmission of said PADI (PPPoE Active Discovery Initiation) packet, packet received from said server was a PADO (PPPoE Active Discovery Offer) packet(para.0065); checking for a server transmitted PADT (PPPoE Active Discovery Terminate) packet in response thereto(para.0062); and said client transmitting a new PADI (PPPoE Active Discovery Initiation packet to said server to reconnect said server

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and said client, when said client receives the server transmitted PADT (PPPoE Active Discovery Terminate) packet(para.0062).

Xu however does not explicitly teach extracting a session-ID and loading it into a PPPoE Active Discovery Terminate packet and transmitting the PPPoE Active Discovery Terminate packet to the server.

Mamakos teaches extracting a session-ID and loading it into a PPPoE Active Discovery Terminate packet and transmitting the PPPoE Active Discovery Terminate packet to the server(page 5, section 5.5).

Therefore it would have been obvious to one ordinary skill in the art at the time of the invention to modify the teachings of Xu to include extracting a session-ID and loading it into a PPPoE Active Discovery Terminate packet and transmitting the PPPoE Active Disovery Terminate packet to the server as taught by Mamakos in order to terminate a PPPoE session.

One ordinary skill in the art would have been motivated to combine the teachings of Xu and Mamakos in order to terminate a PPPoE session.

Xu in view of Mamakos does not explicitly determine and/or check to what types of packets are being received.

Kaganoi teaches determine and/or check to what types of packets are being received(para.0047).

Therefore it would have been obvious to one ordinary skill in the art at the time of the invention to modify the teachings of Xu in view of Mamakos to include determination Application/Control Number: 10/772,393

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of different types of packets as taught by Kaganoi in order to determine what types of packets are being received.

One ordinary skill in the art would have been motivated to combine the teachings of Xu, Mamakos, and Kaganoi in order to determine what types of packets are being received.

As per claim 2, the system as set forth in claim 1, wherein said client checks a value of a Code field in said packet received from said server, when checking whether the packet received from said server is the PADO (PPPoE Active Discovery Offer) packet(Kaganoi, para.0047). Motivation to combine set forth in claim 1.

As per claim 3, the system as set forth in claim 1, further comprising: said client transmitting a PADR (PPPoE Active Discovery Request) packet to said server when the client determines that the packet received from said server is the PADO (PPPoE Active Discovery Offer) packet and checking for a server transmitted PADS (PPPoE Active Discovery Session-confirmation) packet in response thereto; and said client and said server beginning a PPP (Point-to-Point Protocol) session stage when the client receives the server transmitted PADS (PPPoE Active Discovery Session-confirmation) packet (Mamakos, section 5.3-5.4). Motivation to combine set forth in claim 1.

As per claim 4, the system as set forth in claim 3, wherein said client checks a value of a Code field in said packet received from said server, when checking whether the packet received from said server is the PADO (PPPoE Active Discovery Offer) packet(Kaganoi, para.0047). Motivation to combine set forth in claim 1.

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As per claim 13, the method as set forth in claim 11, said step of checking the Code field checks for a predetermined value of 0x07 in said Code field(Xu, para.0062).

As per claim 14, the method as set forth in claim 12, said step of checking the Code field checks for a predetermined value of 0x07 in said Code field(Xu, para.0062).

As per claim 16, the method as set forth in claim 11, wherein said abnormal manner is any manner other than by transmission of respective discovery stage terminate packets between said client and said server(Xu, para.0060).

As per claims 6-9, 11,12,do not teach or further define over the limitations in claims 1-4. Therefore claims 6-9, 11, 12 are rejected for the same reasons set forth above.

Claims 5,10,15 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Publication 2004/0052263 issued to Xu in view of *A Method of Transmitting PPP Over Ethernet*, RFC 1516, Mamkos et al.(Mamkos), Feb.1999 in further view of US Publication 2003/0012198 issued to Kaganoi et al.(Kaganoi) in further view of US Publication 2003/0182434 issued to Ogushi et al.(Ogushi).

Xu in view of Mamkos in further view of Kaganoi does not explicitly teach as per claim 5, the system as set forth in claim 1, further comprising: said client also extracting a client MAC (Media Access Control) address from said packet received from said server and storing the client MAC (Media Access Control) address; and said client loading said client MAC (Media Access Control) address of the PADT (PPPoE Active Discovery Terminate) packet being transmitted to said server.

Xu in view of Mamkos in further view of Kaganoi however, does teach extracting session-ID and using the ID in the PADT packet for termination of a session(Mamkos, 5.5) and determining different types of packets(Kaganoi, para.0047)

Ogushi teaches the extraction of a MAC address from a data packet from a server and loading that information into another packet(para.0024-0026). It is obvious to one ordinary skill in the art at the time of the invention to modify the teachings of Ogushi from extraction of a MAC address from a data packet from a server and loading that information into another packet to instead extract a client MAC address from a data packet and loading the information into a PADT packet.

Therefore it would have been obvious to one ordinary skill in the art at the time of the invention to modify the teachings of Xu in view of Mamkos in further view of Kaganoi to include extracting a MAC address from a data packet and loading that information into another packet as taught by Ogushi in order provide a system that can distribute connection requests from clients to servers.

One ordinary skill in the art would have been motivated to combine the teachings of Xu, Mamkos, Kaganoi, Ogushi in order to provide a system that can distribute connection requests from clients to servers.

As per claims 10,15, do not teach or further define over the limitations in claims 5. Therefore claims 10,15 are rejected for the same reasons set forth above.

Conclusion

Examiner's Note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant.

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Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in its entirety as potentially teaching of all or part of the claimed invention.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Backhean Tiv whose telephone number is (571) 272-5654. The examiner can normally be reached on M-F 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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